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L14: Entry 4 of 11 File: USPT Oct 20, 1998

US-PAT-NO: 5826236
DOCUMENT-IDENTIFIER: US 5826236 A

TITLE: Method for allocating resources and processes for design and production plan scheduling

DATE-ISSUED: October 20, 1998

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APPL-NO: 8/ 569773
DATE FILED: December 8, 1995

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	6-306516	December 9, 1994
JP	7-249746	September 27, 1995

INT-CL: [6] G06F 17/60, G06F 17/50
US-CL-ISSUED: 705/8; 205/7, 364/468.05, 364/468.06, 364/468.15, 364/474.24
US-CL-CURRENT: 705/8; 700/100, 700/108, 700/182, 700/99, 705/7
FIELD-OF-SEARCH: 364/468.03, 364/468.05, 364/468.06, 364/468.15, 364/474.24, 395/207, 395/208, 705/7, 705/8

REF-CITED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4852001	July 1989	Tsushima et al.	364/401
☐	5408663	April 1995	Miller	395/650

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
6-35920	February 1994	JPX

OTHER PUBLICATIONS

Morton et al., "Shop Routing", Heuristic Scheduling Systems, Chapter 12, pp.

267-293, 1993.
English translation of relevant portions of PERT (Tomoaki Sekine, PERT CPM, Nikka-girenn).

ART-UNIT: 271
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ABSTRACT:

A scheduling computer system optimizes the match between allocation of processes and resources. To do so, the system temporarily allocates the resources to a process selected based on the attributes of the resources and the processes, as well as the processing start and desired processing end times. In doing so, the system avoids selecting processes to which resources have been already allocated. The system also determines a resulting time value and a resulting fitness value based on the temporary allocation. Using the resulting time value and the resulting fitness value, the system determines the optimum resource for a particular process and allocates the resource to the process accordingly. The system also generates a scheduling chart illustrating the resource allocation.

26 Claims, 13 Drawing figures